

FLUORINE-CONTAINING TRICARBOXYLIC ACID-TYPE AMPHOTERIC COMPOUND AND PREPARATION

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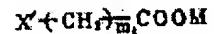
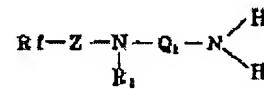
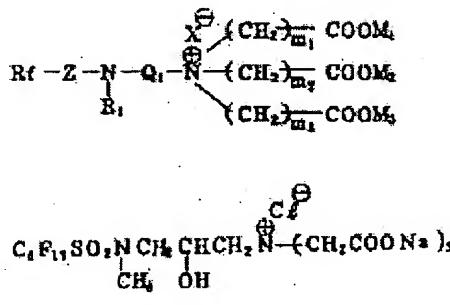
Abstract of JP58201752

NEW MATERIAL: The compound of formula I (Rf is 3-18C fluorinated aliphatic group; Z is $-SO_2-$, $-CO-$, $-(CH_2)l-SO_2-$ (l is 1-6), etc.; R1 is H, $-CH_2CH_2OH$, 1- 12C alkyl, etc.; Q1 is $-(CH_2)n-$ (n is 2-6), etc.; X is inorganic or organic anion; m1-m3 are 1-3; M1-M3 are H, or inorganic or organic cation).

EXAMPLE: The compound of formula II.

USE: A surface active agent having excellent surface tension lowering activity, frothing property, resistance to hard water, and solubility.

PROCESS: The compound of formula I wherein X is Cl, Br or I can be prepared by reacting the compound of formula III with the compound of formula IV (X' is Cl, Br or I) in the presence of a basic catalyst (in the case of $m_1=m_2=m_3$) or by reacting 1 mol of the compound of formula III with 2.0-2.4 mol of the compound of formula V and further reacting with 1.0-1.2 mol of the compound of formula VI (in the case of $m_1=m_2 \neq m_3$).



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